



030560-057.ST25

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SEQUENCE LISTING

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<110> Altmann, Friedrich
<120> Fucosyl Transferase Gene
<130> 030560-057
<140> US 09/913,858
<141> 2001-08-20
<150> PCT/AT00/00040
<151> 2000-02-17
<150> AT A 270/99
<151> 1999-02-18
<160> 17
<170> PatentIn version 3.1
<210> 1
<211> 2198
<212> DNA
<213> Unknown Organism
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<223> Description of Unknown Organism:plant

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tgcggaattg gcagttgggg ggcgaattga atgatgggtc tgttgacgaa tcttcgaggc 240
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<210> 2
 <211> 510
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism:plant

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 20 25 30
 Lys Trp Ser Asn Leu Met Pro Leu Val Val Ala Leu Val Val Ile Ala
 35 40 45
 Glu Ile Ala Phe Leu Gly Arg Leu Asp Met Ala Lys Asn Ala Ala Met
 50 55 60
 Val Asp Ser Leu Ala Asp Phe Phe Tyr Arg Ser Arg Ala Val Val Glu
 65 70 75 80
 Gly Asp Asp Leu Gly Leu Gly Leu Val Ala Ser Asp Arg Asn Ser Glu
 85 90 95
 Ser Tyr Ser Cys Glu Glu Trp Leu Glu Arg Glu Asp Ala Val Thr Tyr
 100 105 110
 Ser Arg Gly Phe Ser Lys Glu Pro Ile Phe Val Ser Gly Ala Asp Gln
 115 120 125
 Glu Trp Lys Ser Cys Ser Val Gly Cys Lys Phe Gly Phe Ser Gly Asp
 130 135 140
 Arg Lys Pro Asp Ala Ala Phe Gly Leu Pro Gln Pro Ser Gly Thr Ala
 145 150 155 160
 Ser Ile Leu Arg Ser Met Glu Ser Ala Glu Tyr Tyr Ala Glu Asn Asn
 165 170 175
 Ile Ala Met Ala Arg Arg Arg Gly Tyr Asn Ile Val Met Thr Thr Ser
 180 185 190

Leu Ser Ser Asp Val Pro Val Gly Tyr Phe Ser Trp Ala Glu Tyr Asp
 195 200 205
 Met Met Ala Pro Val Gln Pro Lys Thr Glu Ala Ala Leu Ala Ala Ala
 210 215 220
 Phe Ile Ser Asn Cys Gly Ala Arg Asn Phe Arg Leu Gln Ala Leu Glu
 225 230 235 240
 Ala Leu Glu Lys Ser Asn Ile Lys Ile Asp Ser Tyr Gly Gly Cys His
 245 250 255
 Arg Asn Arg Asp Gly Arg Val Asn Lys Val Glu Ala Leu Lys His Tyr
 260 265 270
 Lys Phe Ser Leu Ala Phe Glu Asn Ser Asn Glu Glu Asp Tyr Val Thr
 275 280 285
 Glu Lys Phe Phe Gln Ser Leu Val Ala Gly Thr Val Pro Val Val Val
 290 295 300
 Gly Ala Pro Asn Ile Gln Asp Phe Ala Pro Ser Pro Gly Ser Ile Leu
 305 310 315 320
 His Ile Lys Glu Ile Glu Asp Val Glu Ser Val Ala Lys Thr Met Arg
 325 330 335
 Tyr Leu Ala Glu Asn Pro Glu Ala Tyr Asn Gln Ser Leu Arg Trp Lys
 340 345 350
 Tyr Glu Gly Pro Ser Asp Ser Phe Lys Ala Leu Val Asp Met Ala Ala
 355 360 365
 Val His Ser Ser Cys Arg Leu Cys Ile His Leu Ala Thr Val Ser Arg
 370 375 380
 Glu Lys Glu Glu Asn Asn Pro Ser Leu Lys Arg Arg Pro Cys Lys Cys
 385 390 395 400
 Thr Arg Gly Pro Glu Thr Val Tyr His Ile Tyr Val Arg Glu Arg Gly
 405 410 415
 Arg Phe Glu Met Glu Ser Ile Tyr Leu Arg Ser Ser Asn Leu Thr Leu
 420 425 430
 Asn Ala Val Lys Ala Ala Val Val Leu Lys Phe Thr Ser Leu Asn Leu
 435 440 445
 Val Pro Val Trp Lys Thr Glu Arg Pro Glu Val Ile Arg Gly Gly Ser
 450 455 460
 Ala Leu Lys Leu Tyr Lys Ile Tyr Pro Ile Gly Leu Thr Gln Arg Gln
 465 470 475 480
 Ala Leu Tyr Thr Phe Ser Phe Lys Gly Asp Ala Asp Phe Arg Ser His
 485 490 495

Leu Glu Asn Asn Pro Cys Ala Lys Phe Glu Val Ile Phe Val
 500 505 510

<210> 3
 <211> 105
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:cDNA

<400> 3
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 gtaactgaaa aattcttcca atcccttggt gctggaactg tccct 105

<210> 4
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Mung bean

<400> 4
 Glu Ala Leu Lys His Tyr Lys Phe Ser Leu Ala Phe Glu Asn Ser Asn
 1 5 10 15

Glu Glu Asp Tyr Val Thr Glu Lys Phe Phe Gln Ser Leu Val Ala Gly
 20 25 30

Thr Val Pro
 35

<210> 5
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:n-terminal sequence
 of tryptic peptide

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> Xaa = any amino acid

<400> 5
 Lys Pro Asp Ala Xaa Phe Gly Leu Pro Gln Pro Ser Thr Ala Ser
 1 5 10 15

<210> 6
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:n-terminal sequence
 of tryptic peptide

<400> 6
 Pro Glu Thr Val Tyr His Ile Tyr Val Arg
 1 5 10

<210> 7
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:n-terminal sequence
 of tryptic peptide

<400> 7
 Met Glu Ser Ala Glu Tyr Tyr Ala Glu Asn Asn Ile Ala
 1 5 10

<210> 8
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:n-terminal sequence
 of tryptic peptide

<400> 8
 Gly Arg Phe Glu Met Glu Ser Ile Tyr Leu
 1 5 10

<210> 9
 <211> 29
 <212> DNA
 <213> Artificial Sequence

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<220>
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 <222> (3)..(15)
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<210> 10
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
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 <222> (14)..(17)
 <223> n = any nucleotide

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22

<210> 11
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (6)..(6)
 <223> n = any nucleotide

<400> 11
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<210> 12
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<400> 12
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20

<210> 13
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<400> 13
 agtgactag agggccagaa

20

<210> 14

<211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<400> 14
 ttcgagcacc acaattggaa at 22

<210> 15
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 15
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<210> 16
 <211> 24
 <212> DNA
 <213> Artificial Sequence

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<400> 16
 cggcggatcc gcaattgaat gatg 24

<210> 17
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<400> 17
 ccggctgcag taccatttag cgcac 25

*Bi
 conc.*